

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO.	5817-7L	APPLICATION NO.	Not Yet Assigned
	APPLICANT			
	Harrington et al.			
	FILING DATE	Concurrently Herewith	GROUP	Not Yet Assigned

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RRS	AA2	5,707,830	01/13/1998	Calos	435	69.1	04/02/1997
	AB2	5,728,551	03/17/1998	Devine et al.	435	91.41	03/02/1995
	AC2	5,733,746	03/31/1998	Treco et al.	435	69.6	03/17/1995
	AD2	5,733,761	03/31/1998	Treco et al.	435	172.3	05/26/1995
	AE2	5,783,385	07/21/1998	Treco et al.	435	6	09/06/1994
	AF2	5,789,215	08/04/1998	Berns et al.	435	172.3	08/07/1997
	AG2	5,830,698	11/03/1998	Reff et al.	435	69.1	03/14/1997
RRS	AH2	5,843,772	12/01/1998	Devine et al.	435	320.1	06/10/1996
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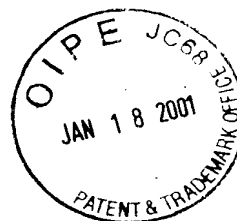
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RRS	AL2	WO 93/09222	05/13/1993	WIPO			Yes No
	AM2	WO 94/12650	06/09/1994	WIPO			Yes No
	AN2	AU 71893/94	06/30/1994	Australia			Yes No
	AO2	FR 2 707 091	01/06/1995	France			Yes No
RRS	AP2	WO 95/31560	11/23/1995	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RRS	AR	2	Barker, C.S., et al., "Activation of the Prolactin Receptor Gene by Promoter Insertion in a Moloney Murine Leukemia Virus-Induced Rat Thymoma," <i>J. Virol.</i> 66(11):6763-6768 (1992).
	AS	2	Black, A.C., et al., "HTLV-II Rex Binding and Activity Requires an Intact Splice Donor Site and a Specific RNA Secondary Structure," <i>AIDS Res. &amp; Human Retroviruses</i> 8:870 (1992).
RRS	AT	2	Brikun, I., et al., "Analysis of CRP-Cytr Interactions at the <i>Escherichia coli</i> <i>udp</i> Promoter," <i>J. Bacteriology</i> 178(6):1614-1622 (March 1996).

EXAMINER	RRS	DATE CONSIDERED	11/19/01
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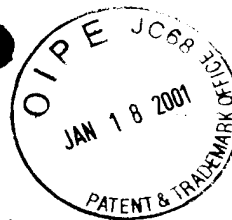
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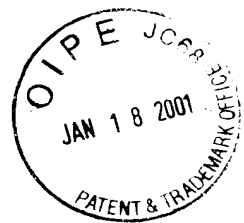
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	AM3	WO 96/29411	09/26/1996	WIPO			Yes No
	AN3	EP 0 742 285 A1	11/13/1996	Europe			Yes No
	A03	WO 98/14614 A1	04/09/1998	WIPO			Yes No
RRS	AP3	WO 99/07389 A1	02/18/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RRS	AR	3	Buckler, A.J., et al., "Exon amplification: A strategy to isolate mammalian genes based on RNA splicing," <i>Proc. Natl. Acad. Sci. USA</i> 88:4005-4009 (1991).
	AS	3	Butturini, A., et al., "Oncogenes in Human Leukemias," <i>Acta Haematologica</i> 78(suppl. 1):2-10 (1987).
RRS	AT	3	Butturini, A., and Gale, R.P., "Oncogenes and Human Leukemias," <i>Intl. J. Cell Cloning</i> 6(1):2-24 (1988).
EXAMINER			DATE CONSIDERED <b>4/8/01</b>

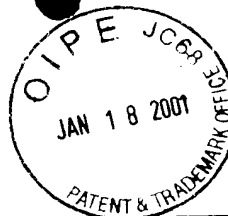
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
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	AM				Yes No
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	AO				Yes No
	AP				Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)					
RPS	AR	4	Chakraborty, A.K., et al., "Transforming function of proto-ras genes depends on heterologous promoters and is enhanced by specific point mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:2217-2221 (1991).		
	AS	4	Chang, W., et al., "Enrichment of Insertional Mutants Following Retrovirus Gene Trap Selection," <i>Virology</i> 193:737-747 (1993).		
RPS	AT	4	Chow, W.-Y., and Berg, D.E., "TnStac1, a derivative of transposon Tn5 that generates conditional mutations," <i>Proc. Natl. Acad. Sci. USA</i> 85:6468-6472 (1988).		
EXAMINER				DATE CONSIDERED 4/3/07	
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
RRS	AR	5	Church, D.M., et al., "Isolation of genes from complex sources of mammalian genomic DNA using exon amplification," <i>Nature Genetics</i> 6:98-105 (1994).				
	AS	5	Crabb, B.S., and Cowman, A.F., "Characterization of promoters and stable transfection by homologous and nonhomologous recombination in <i>Plasmodium falciparum</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 93:7289-7294 (July 1996).				
RRS	AT	5	Datson, N.A., et al., "Specific isolation of 3'-terminal exons of human genes by exon trapping," <i>Nucl. Acids Res.</i> 22(20):4148-4153 (1994).				
EXAMINER RRS				DATE CONSIDERED 4/8/01			
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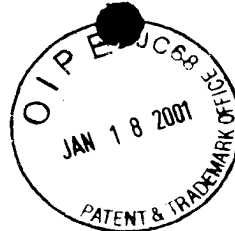
RPS	AR	6	Datson, M.A., et al., "Scanning for genes in large genomic regions: cosmid-based exon trapping of multiple exons in a single product," <i>Nucl. Acids Res.</i> 24:1105-1111 (March 1996).
	AS	6	De Benedetti, A., and Rhoads, R.E., "A novel BK virus-based episomal vector for expression of foreign genes in mammalian cells," <i>Nucl. Acids Res.</i> 19:1925-1931 (1991).
RPS	AT	6	Dickson, C., et al., "Tumorigenesis by Mouse Mammary Tumor Virus: Proviral Activation of a Cellular Gene in the Common Integration Region int-2," <i>Cell</i> 37:529-536 (1984).

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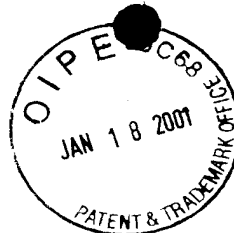
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	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
RKS	AR	Z	Dostatni, N., et al., "Use of Retroviral Vectors for Mapping of Splice Sites in Cottontail Rabbit Papillomavirus," <i>J. Gen. Virol.</i> 69:3093-3100 (1988).				
	AS	Z	Duesberg, P.H., et al., "Cancer Genes by Non-Homologous Recombination," In: <i>Boundaries between Promotion and Progression during Carcinogenesis</i> , Sudilovsky, O., et al., eds., Plenum Press, New York, NY, pp. 197-211 (1991).				
RRS	AT	Z	Duyk, G.M., et al., "Exon trapping: A genetic screen to identify candidate transcribed sequences in cloned mammalian genomic DNA," <i>Proc. Natl. Acad. Sci. USA</i> 87:8995-8999 (1990).				
EXAMINER RKS				DATE CONSIDERED 4/5/01			
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RPS	AR	8	Frankel, W., et al., "Retroviral insertional mutagenesis of a target allele in a heterozygous murine cell line," <i>Proc. Natl. Acad. Sci. USA</i> 82:6600-6604 (1985).
/	AS	8	Fujisawa, J.-I., et al., "Functional activation of the long terminal repeat of human T-cell leukemia virus type I by a trans-acting factor," <i>Proc. Natl. Acad. Sci. USA</i> 82:2277-2281 (1985).
RPS	AT	8	Fung, Y.-K.T., et al., "Activation of the Cellular Oncogene c-erbB by LTR Insertion: Molecular Basis for Induction of Erythroblastosis by Avian Leukosis Virus," <i>Cell</i> 33:357-368 (1983).

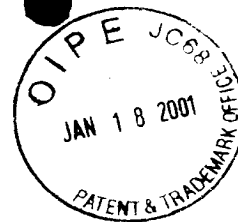
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RPS	AR	2	Goff, S.P., "Gene Isolation by Retroviral Tagging," <i>Meth. Enzymology</i> 152:469-481 (1987).
	AS	2	Hayward, W.S., <i>et al.</i> , "Activation of a cellular <i>onc</i> gene by promoter insertion in ALV-induced lymphoid leukemia," <i>Nature</i> 290:475-480 (1981).
RPS	AT	2	Jackson, I.J., "A reappraisal of non-consensus mRNA splice sites," <i>Nucl. Acids Res.</i> 19(14):3795-3798 (1991).

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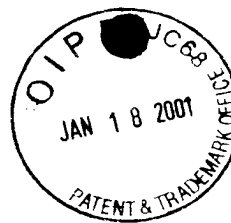
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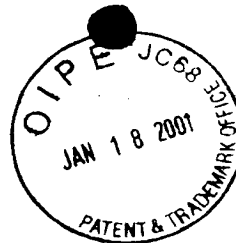
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RPS	AR	10	Joshi, S., "A Putative Approach for Cloning 'Silent' Genes Using Retroviral Vectors," <i>Med. Hypoth.</i> 36:242-245 (1991).
	AS	10	Joyner, A.L., "Gene Targeting and Gene Trap Screens Using Embryonic Stem Cells: New Approaches to Mammalian Development," <i>BioEssays</i> 13:649-656 (1991).
RPS	AT	10	Junejo, F., <i>et al.</i> , "Sequence analysis of the herpes simplex virus type 1 strain 17 variants 1704, 1705 and 1706 with respect to their origin and effect on the latency-associated transcript sequence," <i>J. Gen. Virol.</i> 72:2311-2315 (1991).

EXAMINER RPS	DATE CONSIDERED RPS
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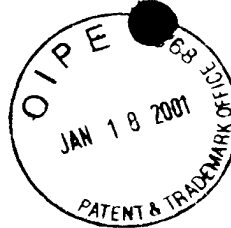
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RES	AR	11	King, W., et al., "Insertion Mutagenesis of Embryonal Carcinoma Cells by Retroviruses," <i>Science</i> 220:554-558 (1985).
	AS	11	Kreissig, S., et al., "Expression of peptides encoded by exons in cloned mammalian DNA," <i>Nucl. Acids Res.</i> 24:4358-4359 (November 1996).
RES	AT	11	Lemay, G., and Jolicoeur, P., "Rearrangement of a DNA sequence homologous to a cell-virus junction fragment in several Moloney murine leukemia virus-induced rat thymomas," <i>Proc. Natl. Acad. Sci. USA</i> 81:38-42 (1984).

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RRS	AR	12	Liang, Y., <i>et al.</i> , "Effects of Alternate RNA Splicing on Glucokinase Isoform Activities in the Pancreatic Islet, Liver, and Pituitary," <i>J. Biol. Chem.</i> 266(11):6999-7007 (1991).
	AS	12	Lih, C.-J., <i>et al.</i> , "Rapid identification and isolation of transcriptionally active regions from mouse genomes," <i>Gene</i> 164:289-294 (1995).
RRS	AT	12	Liu, Z., <i>et al.</i> , "The E6 Gene of Human Papillomavirus Type 16 Is Sufficient for Transformation of Baby Rat Kidney Cells in Cotransfection with Activated Ha-ras," <i>Virology</i> 201:388-396 (1994).

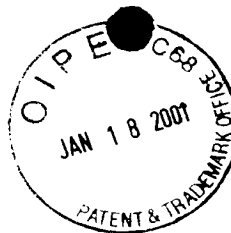
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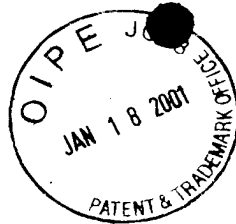
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
ARS	AR	13	Mölders, H., et al., "Integration of transfected LTR sequences into the c-raf proto-oncogene: activation by promoter insertion," <i>EMBO J.</i> 4(3):693-698 (1985).				
	AS	13	Moore, R., et al., "Sequence, topography and protein coding potential of mouse int-2: a putative oncogene activated by mouse mammary tumour virus," <i>EMBO J.</i> 5(5):919-924 (1986).				
ARS	AT	13	Müller, R., and Müller, D., "Co-transfection of normal NIH/3T3 DNA and retroviral LTR sequences: a novel strategy for the detection of potential c-onc genes," <i>EMBO J.</i> 3(5):1121-1127 (1984).				
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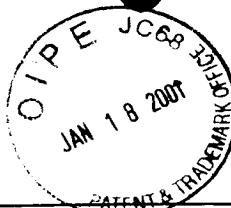
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
215	AR	14	Muth, K., <i>et al.</i> , "Disruption of Genes Regulated During Hematopoietic Differentiation of Mouse Embryonic Stem Cells," <i>Develop. Dynamics</i> 212:277-283 (June 1998).
	AS	14	Neel, B.G., <i>et al.</i> , "Molecular Analysis of the c-myc Locus in Normal Tissue and in Avian Leukosis Virus-Induced Lymphomas," <i>J. Virol.</i> 44(1):158-166 (1982).
225	AT	14	Nicolas, J.-F., and Rubenstein, J.L.R., "Retroviral Vectors," In: <i>Vectors: A Survey of Molecular Cloning Vectors and Their Uses</i> , Rodriguez, R.L., <i>et al.</i> , eds., Butterworths Publ., Stoneham, MA, pp. 493-513 (1988).

EXAMINER 215	DATE CONSIDERED 4/5/01
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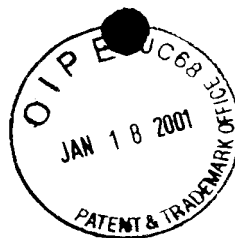
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	15	Nilsen, T.W., <i>et al.</i> , "c-erbB Activation in ALV-Induced Erythroblastosis: Novel RNA Processing and Promoter Insertion Result in Expression of an Amino-Truncated EGF Receptor," <i>Cell</i> 41:719-726 (1985).
	AS	15	Niwa, H., <i>et al.</i> , "An Efficient Gene-Trap Method Using Poly A Trap Vectors and Characterization of Gene-Trap Events," <i>J. Biochem.</i> 113:343-349 (1993).
RP	AT	15	Nottenburg, C., and Varmus, H.E., "Features of the Chicken c-myc Gene That Influence the Structure of c-myc RNA in Normal Cells and Bursal Lymphomas," <i>Mol. Cell. Biol.</i> 6(8):2800-2806 (1986).

EXAMINER RPS	DATE CONSIDERED 4/8/01
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	AN						Yes No
	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PPS	AR	16	Nouvel, P., "The mammalian genome shaping activity of reverse transcriptase," <i>Genetica</i> 93:191-201 (1994).
	AS	16	Nusse, R., "The activation of cellular oncogenes by retroviral insertion," <i>Trends in Genetics</i> 2:244-247 (1986).
PPS	AT	16	Nusse, R., and Berns, A., "Cellular Oncogene Activation by Insertion of Retroviral DNA; Genes Identified by Provirus Tagging," In: <i>Cellular Oncogenes Activation</i> , Klein, G., ed., Marcel Dekker, Inc., New York, NY, pp. 95-119 (1988).

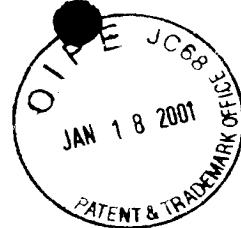
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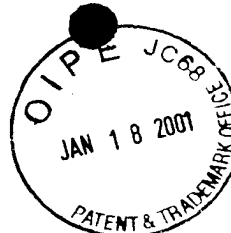
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RPS	AR	17	Payne, G.S., et al., "Multiple arrangements of viral DNA and an activated host oncogene in bursal lymphomas," <i>Nature</i> 295:209-215 (1982).
	AS	17	Peters, G., et al., "Tumorigenesis by Mouse Mammary Tumor Virus: Evidence for a Common Region for Provirus Integration in Mammary Tumors," <i>Cell</i> 33:369-377 (1983).
RPS	AT	17	Petitclerc, D., et al., "The effect of various introns and transcription terminators on the efficiency of expression vectors in various cultured cell lines and in the mammary gland of transgenic mice," <i>J. Biotechnol.</i> 40:169-178 (1995).

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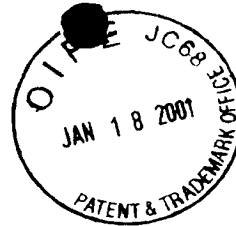
RRS	AR	18	Reinhart, T.A., <i>et al.</i> , "RNA Splice Site Utilization by Simian Immunodeficiency Viruses Derived from Sooty Mangabey Monkeys," <i>Virology</i> 224:338-344 (October 1, 1996).
	AS	18	Robinson, W.S., "Molecular Events in the Pathogenesis of Hepadnavirus-Associated Hepatocellular Carcinoma," <i>Annu. Rev. Med.</i> 45:297-323 (1994).
RRS	AT	18	Salminen, M., <i>et al.</i> , "Efficient Poly A Trap Approach Allows the Capture of Genes Specifically Active in Differentiated Embryonic Stem Cells and in Mouse Embryos," <i>Develop. Dynamics</i> 212:326-333 (June 1998).

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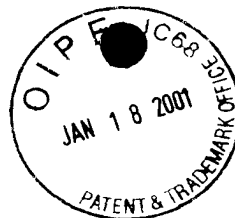
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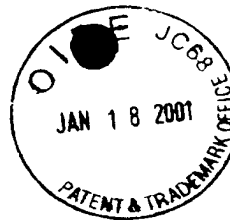
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	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
RPS	AR	19	Segal, D., et al., "Genetic Transformation of <i>Drosophila</i> Cells in Culture by P Element-Mediated Transposition," <i>Somatic Cell and Mol. Genetics</i> 22(2):159-165 (March 1996).				
	AS	19	Shen-Ong, G.L.C., et al., "Activation of the <i>c-myc</i> Locus by Viral Insertional Mutagenesis in Plasmacytoid Lymphosarcomas," <i>Science</i> 226:1077-1080 (1984).				
RPS	AT	19	Shen-Ong, G.L.C., et al., "Two Modes of <i>c-myc</i> Activation in Virus-Induced Mouse Myeloid Tumors," <i>Mol. Cell. Biol.</i> 6(2):380-392 (1986).				
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	AM						Yes No
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	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
RPS	AR	20	Shin, S., and Steffen, D.L., "Frequent activation of the <i>lck</i> gene by promoter insertion and aberrant splicing in murine leukemia virus-induced rat lymphomas," <i>Oncogene</i> 8:141-149 (1993).				
	AS	20	Simpson, K., et al., "Stable Episomal Maintenance of Yeast Artificial Chromosomes in Human Cells," <i>Mol. Cell. Biol.</i> 16:5117-5126 (September 1996).				
RPS	AT	20	Stary, A., and Sarasin, A., "Simian virus 40 (SV40) large T antigen-dependent amplification of an Epstein-Barr virus-SV40 hybrid shuttle vector integrated into the human HeLa cell genome," <i>J. Gen. Virol.</i> 73:1679-1685 (1992).				
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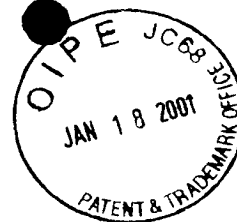
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	21	Steffen, D., "Proviruses are adjacent to c-myc in some murine leukemia virus-induced lymphomas," <i>Proc. Natl. Acad. Sci. USA</i> 81:2097-2101 (1984).
AS	21	Sun, T.-Q., et al., "Human artificial episomal chromosomes for cloning large DNA fragments in human cells," <i>Nature Genetics</i> 8:33-41 (1994).
AT	21	Takami, Y., et al., "Cloning and Characterization of Human Papillomavirus Type 52 From Cervical Carcinoma in Indonesia," <i>Int. J. Cancer</i> 48:516-522 (1991).

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## INFORMATION DISCLOSURE STATEMENT

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RRS	AR	22	Tashiro, S., et al., "Identification of illegitimate recombination hot spot of the retinoic acid receptor alpha gene involved in 15;17 chromosomal translocation of acute promyelocytic leukemia," <i>Oncogene</i> 9:1939-1945 (1994).
	AS	22	Tsichlis, P.N., et al., "A common region for proviral DNA integration in MoMuLV-induced rat thymic lymphomas," <i>Nature</i> 302:445-449 (1983).
ES	AT	22	Unger, R.E., et al., "Simian Immunodeficiency Virus (SIVmac) Exhibits Complex Splicing for tat, rev, and env mRNA," <i>Virology</i> 182:177-185 (1991).

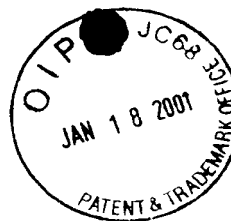
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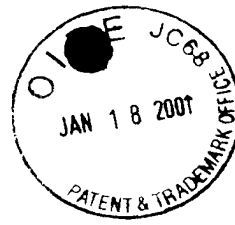
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RPB	AR	23	van Ooyen, A., and Nusse, R., "Structure and Nucleotide Sequence of the Putative Mammary Oncogene <i>int-1</i> ; Proviral Insertions Leave the Protein-Encoding Domain Intact," <i>Cell</i> 39:233-240 (1984).
	AS	23	Voss, A.K., <i>et al.</i> , "Efficiency Assessment of the Gene Trap Approach," <i>Develop. Dynamics</i> 212:171-180 (June 1998).
RPB	AT	23	Westphal, E.M., <i>et al.</i> , "A System for Shuttling 200-kb BAC/PAC Clones Into Human Cells: Stable Extrachromosomal Persistence and Long-Term Ectopic Gene Activation," <i>Human Gene Ther.</i> 9:1863-1873 (September 1998).

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RRS	AR	24	Xiong, J.-W., et al., "Large-Scale Screening for Developmental Genes in Embryonic Stem Cells and Embryoid Bodies Using Retroviral Entrapment Vectors," <i>Develop. Dynamics</i> 212:181-197 (June 1998).
	AS	24	Zhou, H., and Duesberg, P.H., "A retroviral promoter is sufficient to convert proto- <i>src</i> to a transforming gene that is distinct from the <i>src</i> gene of Rous sarcoma virus," <i>Proc. Natl. Acad. Sci. USA</i> 87:9128-9132 (1990).
RRS	AT	24	Dialog File 351, Derwent WPI English language abstract for FR 2 707 091.

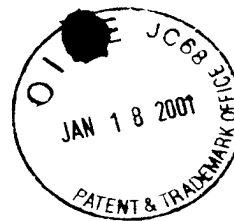
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fcd	AR	25	Drug Discovery News, "Lexicon Genetics, Inc.," Genetic Engin. News 19:35 (March 1999).				
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